TOSHIBA TRANSISTOR SILICON NPN TRIPLE DIFFUSED TYPE

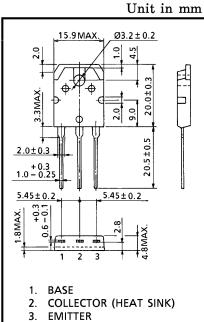
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POWER AMPLIFIER APPLICATIONS

- Complementary to 2SA1941
- Recommend for 70W High Fidelity Audio Frequency Amplifier Output Stage.

MAXIMUM RATINGS ($Tc = 25^{\circ}C$)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V _{CBO}	140	V
Collector-Emitter Voltage	VCEO	140	V
Emitter-Base Voltage	VEBO	5	V
Collector Current	IC	10	A
Base Current	IB	1	A
Collector Power Dissipation (Tc=25°C)	PC	100	w
Junction Temperature	Tj	150	°C
Storage Temperature Range	T _{stg}	$-55 \sim 150$	°C



2-16C1A

Weight : 4.7g (Typ.)

JEDEC

JEITA

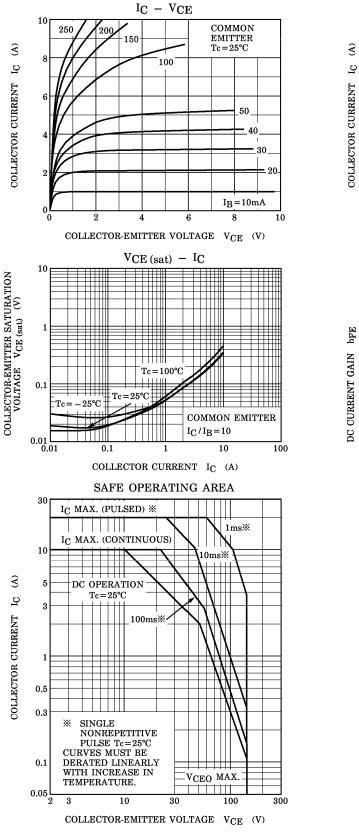
TOSHIBA

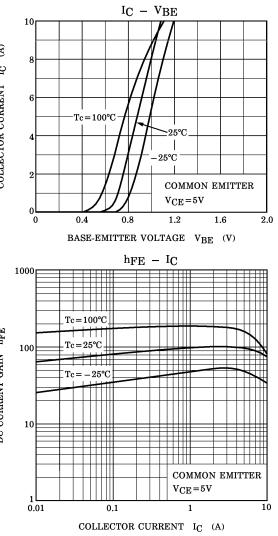
CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	ICBO	$V_{CB} = 140V, I_E = 0$			5.0	$\mu \mathbf{A}$
Emitter Cut-off Current	I _{EBO}	$V_{EB} = 5V, I_{C} = 0$	—	—	5.0	$\mu \mathbf{A}$
Collector-Emitter Breakdown Voltage	V (BR) CEO	$I_{C}=50mA$, $I_{B}=0$	140	_	_	v
DC Current Gain	hFE (1) (Note)	$V_{CE}=5V, I_{C}=1A$	55	_	160	
	hFE (2)	$V_{CE} = 5V, I_C = 5A$	35	83	—	
Collector-Emitter Saturation Voltage	V _{CE (sat})	$I_{C} = 7A, I_{B} = 0.7A$	_	0.3	2.0	v
Base-Emitter Voltage	V _{BE}	$V_{CE} = 5V, I_C = 5A$	—	0.9	1.5	V
Transition Frequency	f_{T}	$V_{CE} = 5V, I_C = 1A$	—	30	—	MHz
Collector Output Capacitance	C _{ob}	V_{CB} =10V, I_E =0, f=1MHz	_	170		pF

(Note) : $h_{FE(1)}$ Classification R : 55~110, O : 80~160

ELECTRICAL CHARACTERISTICS ($Tc = 25^{\circ}C$)

TOSHIBA





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000707EAA

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